

#8

1646

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/346,069
 Input Set : A:\A62326-1.app
 Output Set: N:\CRF3\11202000\I346069.raw

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 TIME: 08:42:49

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3 <110> APPLICANT: Kept, Bruce A.
 4 Nguyen, Francis H.
 5 Ferrara, Napoleone
 7 <120> TITLE OF INVENTION: NUCLEIC ACIDS ENCODING VARIANTS OF VASCULAR ENDOTHELIAL
 8 CFFL GROWTH FACTOR
 10 <130> FILE REFERENCE: A-62326-2
 12 <140> CURRENT APPLICATION NUMBER: 09/346,069
 13 <141> CURRENT FILING DATE: 1999-07-01
 15 <150> PRIOR APPLICATION NUMBER: 08/567,200
 16 <151> PRIOR FILING DATE: 1995-12-05
 18 <150> PRIOR APPLICATION NUMBER: 60/002,827
 19 <151> PRIOR FILING DATE: 1995-08-25
 21 <160> NUMBER OF SEQ ID NOS: 42
 23 <170> SOFTWARE: PatentIn Ver. 2.1
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 990
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Bovine
 30 <220> FEATURE:
 31 <221> NAME/KEY: CDS
 32 <222> LOCATION: (57)..(632)
 34 <400> SEQUENCE: 1
 35 cagtgtgctg gggccggc gcgagccggc cggccccgg tcgggcctcc gaaacc atg 59
 36 1
 37 Met
 39 aac ttt ctg ctg tct tgg gtg cat tgg agc ctc gcc ttg ctg ctc tac 107
 40 Asn Phe Leu Leu Ser Trp Val His Trp Ser Leu Ala Leu Leu Tyr
 41 5 10 15
 43 ctc cac cat gcc aag tgg tcc cag gct gca ccc atg gca gaa gga gga 155
 44 Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly Gly
 45 20 25 30
 47 ggg cag aat cat cac gaa gtg gtg aag ttc atg gat gtc tat cag cgc 203
 48 Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln Arg
 49 35 40 45
 51 agc tac tgc cat cca atc gag acc ctg gtg gac atc ttc cag gag tac 251
 52 Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu Tyr
 53 50 55 60 65
 55 cct gat gag atc gag tac atc ttc aag cca tcc tgt gtg ccc ctg atg 299
 56 Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu Met
 57 70 75 80
 59 cga tgc ggg ggc tgc aat gac gag ggc ctg gag tgt gtg ccc act 347
 60 Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro Thr
 61 85 90 95
 63 gag gag tcc aac atc acc atg cag att atg cgg atc aaa cct cac caa 395
 64 Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His Gln
 65 100 105 110
 67 ggc cag cac ata gga gag atg agc ttc cta cag cac aac aaa tgt gaa 443

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68 Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys Glu
69      115          120          125
71 tgc aga cca aag aaa qat aca qca aca qaa aat ccc tqt qgg cct  491
72 Cys Arg Pro Lys Lys Asp Arg Ala Arg Glu Asn Pro Cys Gly Pro
73 i30          135          140          145
75 tgc tca gag cgg aca aac cat ttt gta caa gat ccg cag acg tgt  539
76 Cys Ser Glu Arg Arg Lys His Ile Phe Val Gln Asp Pro Gln Ile Cys
77          150          155          160
79 aaa tgt tcc tgc aaa aac aca qac tcg cgt tgc aac gcg agg caq ctt  587
80 Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg Gln Leu
81          165          170          175
83 qaa ita aac qaa cgt act tgc aqa tgt gac aag ccg agg cgg tga/  632
84 Glu Ile Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
85          180          185          190
87 gcccggcagg aggaaggagc ctcccccagg gtttccggaa ccagatctt caccaggaaa 692
89 qactqataca gaacqatcga tacaaqaacc acqctgcgc caccaccca tcaccatcga 752
91 cagaacatgc ctaatccaa aaacctgaaa tqaqqaaaga gqagactctg cqcaqagcac 812
93 ttggggcccg gagggcggaga ctccggccqaa aqcatccccq qgccccgtgac ccagcacgg 872
95 ccctcttgya attggatctc ccattttatt ftttcttgctg ctaaatcacc gqccccggaa 932
97 gatttagaaq ttttatttcg gggattccctg tagacacacc gcggccgcca qcacactq  990
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101 <211> LENGTH: 191
102 <212> TYPE: PRI
103 <213> ORGANISM: Bovine
105 <400> SEQUENCE: 2
106 Met Asn Phe Leu Ile Ser Trp Val His Ile Ser Leu Ala Leu Leu
107      1          5          10          15
108 Tyr Leu His His Ala Lys Trp Ser Gln Ala Ala Pro Met Ala Glu Gly
109      20          25          30
110 Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln
111      35          40          45
112 Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu
113      50          55          60
114 Ily Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu
115      65          70          75          80
116 Met Arg Cys Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro
117      85          90          95
118 Ile Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His
119      100         105         110
120 Gln Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys
121      115         120         125
122 Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Asn Pro Cys Gly
123      130         135         140
124 Pro Cys Ser Glu Arg Arg Lys His Ile Phe Val Gln Asp Pro Gln Thr
125 145          150          155          160
126 Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg Gln
127          165          170          175
128 Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg
129          180          185          190

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Input Set : A:\A62326-1.app
Output Set: N:\CRF3\11202000\I346069.raw

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133 <210> SEQ ID NO: 3
134 <211> LFNCIH: 59
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
141 <400> SEQUENCE: 3
142 cctatggctg aaggccggcca qaaacctcac qaagtggta agttcatgga cgtgtatca 59
145 <210> SEQ ID NO: 4
146 <211> LENGTH: 99
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
153 <400> SEQUENCE: 4
154 aqtagcaaqc ttqacgtgtq qcaggcttqa qatctqqcca tacacttgag tgacaatgac 60
155 atccacttg cctttcttc cacaggatgtc cactcccaq 99
158 <210> SEQ ID NO: 5
159 <211> LENGTH: 30
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
166 <400> SEQUENCE: 5
167 aqgctgctqc agttcgtacgt gggagtggac 30
170 <210> SEQ ID NO: 6
171 <211> LENGTH: 24
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
178 <400> SEQUENCE: 6
179 ccctccctcg gctgcctatgg gtgc 24
182 <210> SEQ ID NO: 7
183 <211> LENGTH: 30
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
190 <400> SEQUENCE: 7
191 ctccaccacg gcggccggcat tctgccctcc 30
194 <210> SEQ ID NO: 8
195 <211> LENGTH: 33
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
202 <400> SEQUENCE: 8
203 ctgtatagacy gccatgaagg ccaccatcc gtg 33

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PATENT APPLICATION: US/09/346,069

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Input Set : A:\A62326-1.app
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206 <210> SEQ ID NO: 9
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208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
214 <400> SEQUENCE: 9
215 qcagtagtcg ccctgtatgc catc
216 <210> SEQ ID NO: 10
219 <211> LENGTH: 33
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
226 <400> SEQUENCE: 10
227 caccagggtq qcqatttqqqq cgcaatgtq qcg
230 <210> SEQ ID NO: 11
231 <211> LENGTH: 36
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
238 <400> SEQUENCE: 11
239 atcagggtatq qccttggaga tggccaccaq ggtctc
242 <210> SEQ ID NO: 12
243 <211> LENGTH: 33
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
250 <400> SEQUENCE: 12
251 qaaatgtatq qcqatggcqg caqgtactc ctg
254 <210> SEQ ID NO: 13
255 <211> LENGTH: 24
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
262 <400> SEQUENCE: 13
263 acaggatggg qcqaatgt actc
266 <210> SEQ ID NO: 14
267 <211> LENGTH: 24
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
274 <400> SEQUENCE: 14
275 gccccccgcag gccatcaggg gcac
278 <210> SEQ ID NO: 15

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/346,069

DATE: 11/20/2000
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Input Set : A:\A62326-1.app
Output Set: N:\CRF3\11202000\I346069.raw

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279 <211> LENGTH: 36
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283 <220> FEATURE:
284 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
286 <400> SEQUENCE: 15
287 qqqcacacaaq qccaaqgcccgg cggcattgca qcaqacc 36
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291 <211> LENGTH: 27
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
298 <400> SEQUENCE: 16
299 qatgttqag qcgqcaqtgg ycacaca 27
302 <210> SEQ ID NO: 17
303 <211> LENGTH: 36
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
310 <400> SEQUENCE: 17
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314 <210> SEQ ID NO: 18
315 <211> LENGTH: 33
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence
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320 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
322 <400> SEQUENCE: 18
323 gaagctcatg gtcctatgg cctggccatq qtg 33
326 <210> SEQ ID NO: 19
327 <211> LENGTH: 30
328 <212> TYPE: DNA
329 <213> ORGANISM: Artificial Sequence
331 <220> FEATURE:
332 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
334 <400> SEQUENCE: 19
335 gcattcacag gctttggcct gtaggaaget 30
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339 <211> LENGTH: 24
340 <212> TYPE: DNA
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic.
346 <400> SEQUENCE: 20
347 tggtctqag gcacatttgt tgtg 24
350 <210> SEQ ID NO: 21
351 <211> LENGTH: 33

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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/346,069
DATE: 11/20/2000
TIME: 08:42:50
Input Set : A:\A62326-1.app
Output Set: N:\CRF3\11202000\I346069.raw